

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

What is claimed is:

1-12 (Cancelled)

13. (original) A computer-implemented method of reassigning manufacturing jobs in a manufacturing system, comprising: maintaining a database identifying characteristics of a plurality of manufacturing machines; receiving notification that a first manufacturing machine is unavailable to perform a manufacturing job; querying the database to identify a second manufacturing machine operable to perform the manufacturing job; and rescheduling the job to be performed by the first manufacturing machine to the second manufacturing machine.

14. (original) The method of claim 13, wherein maintaining a database identifying characteristics of a plurality of manufacturing machines comprises maintaining a database comprising data specifying the functional capabilities of a plurality of manufacturing machines.

15. (original) The method of claim 13, wherein receiving notification that first manufacturing machine is unavailable to perform a manufacturing job comprises receiving data indicating the first manufacturing machine is malfunctioning.

16. (original) The method of claim 13, wherein querying the database to identify a second manufacturing machine comprises querying to identify a manufacturing machine having substantially same manufacturing capabilities as the first manufacturing machine.

17. (original) The method of claim 13, wherein rescheduling the job to be performed by the first manufacturing machine to the second comprises updating scheduling data to

reflect the job to be performed by the second manufacturing machine.

18. (original) The method of claim 13, wherein receiving notification that a first manufacturing machine is unavailable to perform a manufacturing job comprises receiving notification that a first manufacturing machine is malfunctioning.

19. (original) A system for rescheduling manufacturing jobs, comprising: a database comprising data regarding the characteristics of a plurality of manufacturing machines; and a server communicatively coupled to said database, said server adapted to receive notification that a first manufacturing machine is unavailable to perform a job scheduled to be performed by the first manufacturing machine, query said database to identify a second manufacturing machine available to perform the job, and reschedule the job to be performed by the second manufacturing machine.

20. (original) The system of claim 19, further comprising a scheduling and planning agent communicatively coupled to said server, wherein said server reschedules the job to be performed by the second manufacturing machine by transmitting a request to reschedule the job to said scheduling and planning agent.